



PTO/SB/08A (08-03)

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Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 1 of 7

Complete if Known

Application Number	10/628,525
Filing Date	July 28, 2003
First Named Inventor	Peter L. Keeling
Art Unit	1644
Examiner Name	Not yet assigned
Attorney Docket Number	15056-4

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
SWL	A	US- 4,859,377	08-22-1983	Shasha et al.	
	B	US- 5,137,819	08-11-1992	Kilburn et al.	
	C	US- 5,202,247	04-13-1993	Kilburn et al.	
	D	US- 5,302,523	04-12-1994	Coffee et al.	
	E	US- 5,349,123	09-20-1994	Shewmaker et al.	
	F	US- 5,512,459	04-30-1996	Wagner et al.	
	G	US- 5,635,599	06-03-1997	Pastan et al.	
	H	US- 5,643,756	07-01-1997	Kayman et al.	
SWL	I	US- 5,648,244	07-15-1997	Kuliopulos et al.	
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FOREIGN PATENT DOCUMENTS

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		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				

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Application Number	10/628,525
Filing Date	July 28, 2003
First Named Inventor	Peer L. Keeling
Art Unit	6144
Examiner Name	Not yet assigned
Attorney Docket Number	15056-4

Sheet 2 of 7

NON PATENT LITERATURE DOCUMENTS

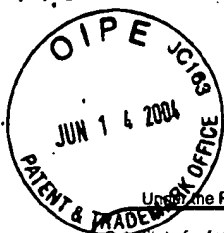
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
swl	J	BABA, T. et al., "Identification, cDNA Cloning, and Gene Expression of Soluble Starch Synthase in Rice (<i>Oryza sativa</i> L.) Immature Seeds" (1993), Plant Physiol. 103:565-573	
	K	BABA, T. et al "Sequence Conservation of the Catalytic Regions of Amylolytic Enzymes in Maize Branching Enzyme-I" (1991) Biochem. Biophys. Res. Comm. 181(1):87-94	
	L	BHATTACHARYYA, M. et al. "The Importance of Starch Biosynthesis in the Wrinkled Seed Shape Character of Peas Studied by Mendel" (1993) Plant Mol. Biol. 22:525-531	
	M	BOYER, C. et al. "Multiple Forms of (1 - 4)-a-D-GLUCAN-6-Glycosyl Transferase from Development Zea Mays L. Kernels" (1978) Carbohydrate Research 61:321-334	
	N	BROEKHUIJSEN, M. et al. "Secretion of heterologous proteins by <i>Aspergillus niger</i> : Production of active..." (1993) Journal of Biotechnology 31:135-145	
	O	BROWNER, M. et al. "Human muscle glycogen synthase cDNA sequence: A negatively charged protein with an asymmetric char..." (3/1989) Proc. Natl. Acad. Sci. USA 86:1443-1447	
	P	CHEN, L et al. "Improved Adsorption to Starch of a B-Galactosidase Fusion Protein Containing the Starch-Binding Domain from <i>Aspergillus</i> ..." (1991) Biotechnol. Prog. 7:225-229	
	Q	DANG, P. et al. "Maize Leaf and Kernel Starch Synthases and Starch Branching Enzymes" (1988) Phytochemistry 27(5):1255-1259	
	S	DENYER, K. et al. "Identification of multiple isoforms of soluble and granule-bound starch synthase in development wheat endosperm" (1995) Plant 196:256-265	
swl	T	DENYER, K. et al. "The purification and characterisation of the two forms of soluble starch synthase from developing pea embryos" (1992) Planta 186:609-617	

Examiner Signature		Date Considered	3/14/05
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NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
SWL	U	DENYER, K. et al. "Soluble isoforms of starch synthase and starch-branching enzyme also occur within starch granules in developing..." (1993) The Plant Journal 4(1):191-198	
	V	DRY, I. et al. "Characterization of cDNAs encoding two isoforms of granule-bound starch synthase which show differential expression..." (1992) The Plant Journal 2(2):193-202	
	W	EDWARDS, A. et al. "Evidence that a 77-Kilodalton Protein from the Starch of Pea Embryos Is an Isoform of Starch Synthase That Is Both..." (1996) Plant Physiol. 112:89-97	
	X	FRYDMAN, R. et al. "Soluble Enzymes Related to Starch Synthesis" (1964) Biochem. and Biophys. Res. Comm. 17(4):407-411	
	Y	FURUKAWA, K. et al. "Role of the Conserved Lys-X-Gly-Gly Sequence at the ADP-glucose-binding Site in..." (11/15/1993) The Journal of Biological Chemistry 268(32):23837-23842	
	Z	FURUKAWA, K. et al. "Identification of Lysine 15 at the Active Site in Escherichia coli Glycogen Synthase" (2/5/1990) The Journal of Biological Chemistry 265(4):2086-2090	
	AA	GODDIJIN, O. et al. "Plants as bioreactors" (9/1995) Trends in Biotechnology 13(9):379-387	
	AB	HOVENKAMP-HERMELINK, J. et al. "Isolation of an amylose-free starch mutant of the potato (Solanum tuberosum L.)" (1987) Theor. Appl. Genet. 75:217-221	
	AC	JENNER, C. et al. "Thermal Characteristics of Soluble Starch Synthase from Wheat Endosperm" (1995) Aust. J. Plant. Physiol. 22:703-709	
SWL	AD	KEELING, P. et al. "Effect of Temperature on Enzymes in the Pathway of Starch Biosynthesis in Developing Wheat and Maize Grain" (1994) Aust. J. Plant. Physiol. 21:807-827	

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Sheet 4	of 7	Attorney Docket Number	15056-4

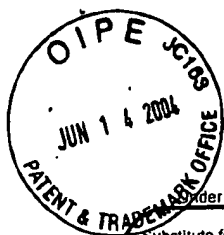
NON PATENT LITERATURE DOCUMENTS			
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SWL	AE	KEELING, P. et al. "Elevated temperature reduces starch deposition in wheat endosperm by reducing the activity of soluble starch synthase" (1993) Planta 191:342-348	
	AF	KIEL, J. et al. "Molecular cloning and nucleotide sequence of the glycogen branching enzyme gene (glgB) from Bacillus..." (1991) Mol. Gen. Genet. 230:136-144	
	AG	KIEL, J. et al. "Cloning and expression of the branching enzyme gene (glgB) from the cyanobacterium Synechococcus sp. PCC7942 in Escherichia coli" (1989) Gen. 78:9-17	
	AH	KIRIHARA, J. et al. "Isolation and sequence of a gene encoding a methionine-rich 10-kDa zein protein from maize" (1988) Gen. 71:359-370	
	AI	KOBMANN, J. et al. "Cloning and expression analysis of a potato cDNA that encodes branching enzyme: evidence for co-expression of starch..." (1991) Mol. Gen. Genet. 230:39-44	
	AJ	KUMAR, A. et al. "Biosynthesis of Bacterial Glycogen" (12/5/1986) The Journal of Biological Chemistry, 261(34):16256-16259	
	AK	KUSNADI, A. et al. "Functional starch-binding domain of Aspergillus glucoamylase I in Escherichia coli" (1993) Gene 127:193-197	
	AL	LEUNG, P. et al. "Cloning and Expression of the Escherichia coli glgC Gene from a Mutant Containing an ADPglucose..." (7/1986) J. of Bacteriology, 167(1):82-88	
	AM	MCCORMICK, M. et al. "Purification and S-Tag detection of CBD fusion proteins" (1997) in Novations 7:12-15	
SWL	AN	MACDONALD, F. et al. "Partial Purification and Characterization of Granule-Bound Starch Synthases from Normal and Waxy Maize" (1985) Plant Physiol. 8:849-852	

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Sheet	5	of	7
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NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
SWL	AO	MACDONALD, F. et al. "Solubilization of the Starch-Granule-Bound Starch Synthase of Normal Maize Kernels" (1983) Plant Physiol. 73:175-178	
	AP	MARSHALL, J. et al. "Identification of the Major Starch Synthase in the Soluble Fraction of Potato Tubers" (7/1996) the Plant Cell 8:1121-1135	
	AQ	MATSUMOTO, A. et al. "A Kinetic Study of the Interaction between Glycogen and Neurospora crassa Branching Enzyme" (1990) J. Biochem. 107:123-126	
	AR	MONSMA, A. et al. "New pBAC transfer plasmids for baculovirus expression of CBD fusion proteins" (1997) InNovations 7:8-11	
	AS	MONSMA, A. et al. "BacVector-3000: An engineered baculovirus designed for greater protein stability" (1997) InNovations 7:16-24	
	AT	MU, C. et al. "Association of a 76 kDa polypeptide with soluble starch synthase I activity in maize (cv B73) endosperm" (1994) The Plant Journal 6(2):151-159	
	AU	MU-FORSTER, C. et al. "Physical Association of Starch Biosynthetic Enzymes with Starch Granules of Maize Endosperm" (1996) Plant Physiol. 111:821-829	
	AV	NAKAMURA, Y. et al. "Nucleotide Sequence of a cDNA Encoding Starch-Branching Enzyme, or Q-Enzyme I, from Rice Endosperm" (1992) Plant Physiol 99:1265-1266	
	AW	NAKAMURA, Y. et al. "Purification of two forms of starch branching enzyme (Q-enzyme) from developing rice endosperm" (1992) Physiologia Plantarum 84:329-335	
SWL	AX	NOVY, R. et al. "New pET expression vectors generate fusion proteins with cellulose binding domains" (1981) inNovations 7:4-7	

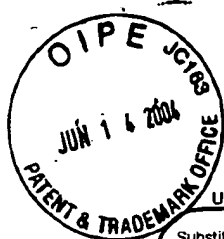
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SWL	AY	OKITA, T. et al. "Biosynthesis of Bacterial Glycogen" (7/10/1981) The Journal of Biological Chemistry 256(13):6944-6952	
	AZ	POLLOCK, C. et al. "The Citrate-Stimulated Starch Synthase of Starchy Maize Kernels: Purification and Properties" (1980) Archives of Biochemistry and Biophysics 204(2):578-58	
	BA	ROWEN, D. et al. "GLC3 and GHA1 of Saccharomyces cerevisiae Are Allelic and Encode the glycogen Branching Enzyme" (1/1992) Molecular and Cellular Biology 12(1):22-29	
	BB	SALEHUZZAMAN, S. et al. "Cloning, partial sequencing and expression of a cDNA coding for branching enzyme in cassava" (1992) Plant Molecular Biology 20:809-819	
	BC	SHIMADA, H. "Antisense regulation of the rice waxy gene expression using a PCR-amplified fragment of the rice genome reduces..." (1993) Theor. Appl. Genet. 86:665-672	
	BD	SHURE, M. et al. "Molecular Identification and Isolation of the Waxy Locus in Maize" (11/1983) Cell 35:225-233	
	BE	SMITH, A. "Major differences in isoforms of starch-branching enzyme between developing embryos of round- and wrinkled-seeded peas (Pisum sativum..." (1988) Planta 175:270-279	
	BF	SHOSEYOV, O. et al. "Cellulose binding domains - A novel fusion technology for efficient, low cost purification and immobilization of..." (8/1997) InNovations 7:1-3	
	BG	SINGH, B. et al. "Starch Branching Enzymes from Maize" (1985) Plant Physiol. 79:34-40	
SWL	BH	SVENSSON, B. et al. "Sequence homology between putative raw-starch binding domains from different starch-degrading enzymes" (1989) Biochem. J. 264:309-311	

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SwL	BI	TAKAHASHI, T. et al. "Different Behavior towards Raw Starch of Three Forms of Glucoamylase from a Rhizopus Sp." (1985) J. Biochem. 98:663-671	
	BJ	TSAI, C. "The Function of the Waxy Locus in Starch synthesis in Maize Endosperm" (1974) Biochemical Genetics 11(2):83-96	
	BK	TYYNELA, J. et al. "An analysis of soluble starch synthase isozymes from the developing grains of normal and shx cv. Bomi Barley..." (1993) Physiologia Plantarum 89:835-841	
	BL	VALVEKENS, D. et al. "Agrobacterium tumefaciens-mediated transformation of Arabidopsis thaliana root explants by using..." (8/1988) Proc. Natl. Acad. Sci. USA 85:5536-5540	
	BM	VAN DER LEIJ, F. et al. "Complementation of the amylose-free starch mutant of potato (Solanum tuberosum.) by the gene encoding..." (1991) Theor. Appl. Genet. 82:289-295	
	BN	VISSER, R. et al. "Inhibition of the expression fo the gene for granule-bound starch synthase in potato by antisense constructs" (1991) Mol. Gen. Genet. 225:289-296	
	BO	VISSER, R. et al. "Molecular Cloning and Partial Characterization of the Gene for Granule-bound Starch Synthase from a Wildtype and an..." (1989) Plant Science 64:185-192	
	BP	VON HEIJNE, G. et al. "CHLPEP - A Database of Chloroplast Transit Peptides" (1991) Plant Molecular Biology Reporter 9(2):104-126	
	BQ	VOS-SHEPERKEUTER, G. et al. "Immunological Comparison of the Starch Branching Enzymes from Potato Tubers and Maize Kernels" (1989) Plant Physiol 90:75-84	
SwL	BR	ZHANG, W. et al. "Primary structure of rabbit skeletal muscle glycogen synthase deduced from cDNA clones" (1989) The BASEB Journal 3:2532-2536	

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1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

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